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PTO/SB/96 (05-02)

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**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Giacomo VACCA et al.

Application No./Patent No.: 10/087,264

Filed/Issue Date: February 28, 2002

Entitled: MICROFLUIDIC CONTROL USING DIELECTRIC PUMPING

Lightwave Microsystems Corporation, a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

[ ] Additional documents in the chain of title are listed on a supplemental sheet.

- [ ] Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date

Martin Lundie

Signature

Vice President and CFO

Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FILES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

Attorney Docket No.: 373722002600

ASSIGNMENT  
JOINT**COPY**

THIS ASSIGNMENT, by Giacomo VACCA, John T. KENNEY, and Dudley A. SAVILLIE (hereinafter referred to as the assignors), residing at 862 Arbor Road, Menlo Park, California 94025, 661 Waverly Street, Palo Alto, California 94301 and 244 Dodds Lane, Princeton, New Jersey 08540, respectively, witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in MICROFLUIDIC CONTROL USING DIELECTRIC PUMPING, set forth in an application for Letters Patent of the United States, bearing Serial No. 10/087,264 and filed on February 28, 2002; and

WHEREAS, Lightwave Microsystems Corporation, a corporation duly organized under and pursuant to the laws of Delaware and having its principal place of business at 2911 Zanker Road, San Jose, California 95134 (hereinafter referred to as the assignee) is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

Attorney Docket No.. 373722002600

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

5/7/02 Giacomo Vacca  
Date Giacomo VACCA

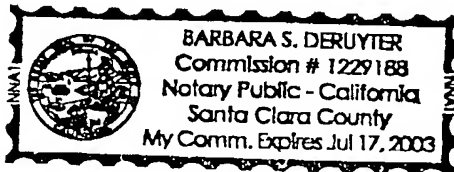
**COPY**

STATE OF California  
COUNTY OF Santa Clara ) ss.

BEFORE ME, the undersigned authority, on this 7th day of may, 2002, personally appeared Giacomo Vacca known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

Barbara S. Deruyter  
Notary Public  
My Commission Expires:

[seal]



Attorney Docket No.: 373722002600

Date

5-8-02

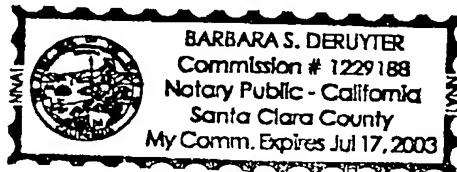
John T. KENNEY

**COPY**STATE OF California )  
COUNTY OF Santa Clara ) ss.

BEFORE ME, the undersigned authority, on this 8th day of May, 2002, personally appeared John T. Kenney known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

[seal]

Notary Public

My Commission Expires: July 17, 2003

Attorney Docket No.: 373722002600

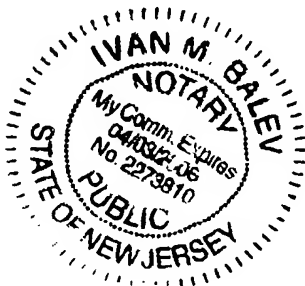
5-1-2002

Date

Dudley A. Saville  
Dudley A. SAVILLESTATE OF New Jersey  
COUNTY OF Mercoer ) ss.**COPY**

BEFORE ME, the undersigned authority, on this 1<sup>st</sup> day of May, 2002, personally appeared Dudley A. Saville known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

[seal]

Ivan M. Balev

Notary Public

My Commission Expires:

COPY OF PAPERS  
ORIGINALLY FILED